AMENDMENTS

In the claims:

1. (**Currently Amended**) A method of producing a flowable composition that sets into a calcium phosphate **containing mineral** product, said method comprising:

combining:

- (a) a setting fluid;
- (b) dry reactants comprising a calcium source and a phosphate source; and
- (c) a water-soluble contrast agent comprising a radio-opaque element other than calcium that is incorporated into said calcium phosphate product;

in a ratio sufficient to produce said flowable material comprising poorly crystalline calcium phosphate mineral, wherein said poorly crystalline that sets into a calcium phosphate mineral product that includes atoms of said radio-opaque element incorporated into said mineral product.

- 2. (Original) The method according to Claim 1, wherein said setting fluid comprises said water-soluble contrast agent.
- 3. (Original) The method according to Claim 1, wherein said dry reactants comprise said water-soluble contrast agent.
- 4. (Original) The method according to Claim 1, wherein said water-soluble contrast agent comprises a salt of a radio-opaque element.
 - 5. (Cancelled)
- 6. (Original) The method according to Claim 4, wherein said radio-opaque element is one that is incorporated into a calcium phosphate apatite structure of said calcium phosphate containing product.

7. (Original) The method according to Claim 4, wherein said radio-opaque element is chosen from barium, oxalate, zirconium, tantalum and tungsten.

- 8. (Original) The method according to Claim 7, wherein said radio-opaque element is barium.
- 9. (Original) The method according to Claim 8, wherein said salt of said radio-opaque element is barium chloride.
- 10. (Currently Amended) The method according to Claim 1, wherein said ratio of said dry reactant to setting fluid are combined in a ratio that ranges from about 0.2:1 to 0.7:1.
- 11. (Original) The method according to Claim 10, wherein said flowable composition is a paste.
- 12. (Original) The method according to claim 1, wherein said setting fluid is a solution of a soluble silicate.
- 13. (Original) The method according to Claim 1, wherein said flowable composition sets into said calcium phosphate containing product in a period of time ranging from about 5 to 10 minutes.
- 14. (Original) The method according to Claim 1, wherein said calcium phosphate containing product has a compressive strength ranging from about 25 to 100 MPa.
- 15. (Currently Amended) A method of producing a paste that sets into a calcium phosphate **containing** mineral product, said method comprising:

(a) combining:

- (i) dry reactants comprising a calcium source and a phosphate source;
- (ii) a setting fluid; and
- (iii) a water-soluble barium salt:

wherein said dry reactants, setting fluid and water-soluble barium salt are combined in a ratio sufficient to provide for said paste; and

- (b) mixing said combined reactants and setting fluid for a sufficient period of time to produce a paste that sets capable of setting into a calcium phosphate containing mineral product.
- 16. (Original) The method according to Claim 15, wherein said setting fluid comprises said water-soluble barium salt.
- 17. (Original) The method according to Claim 15, wherein said dry reactants comprise said water-soluble barium salt.
- 18. (Original) The method according to Claim 15, wherein said water-soluble barium salt is barium chloride.
- 19. (Original) The method according to claim 15, wherein said setting fluid is a solution of a soluble silicate.
- 20. (Original) The method according to Claim 15, wherein both said setting fluid and dry reactants comprise said water-soluble barium salt.
- 21. (Original) The method according to Claim 15, wherein said flowable composition sets into said calcium phosphate containing product in a period of time ranging from about 5 to 10 minutes.

22. (Original) The method according to Claim 15, wherein said calcium phosphate containing product has a compressive strength ranging from about 25 to 100 MPa.

23. (Original) A flowable composition that sets into a calcium phosphate containing product, wherein said composition is produced by the method according to Claim 1.

24. (Cancelled)

- 25. (Currently Amended) A kit for use in preparing a flowable composition that sets in an in vivo fluid environment into a calcium phosphate <u>mineral</u> product comprising calcium phosphate molecules, said kit comprising:
 - (a) dry reactants comprising a calcium source and a phosphate source;
 - (b) a setting fluid or components for producing the same; and
- (c) a water-soluble contrast agent comprising a radio-opaque element other than calcium that is incorporated into said calcium phosphate <u>mineral</u> product, comprising poorly crystalline calcium phosphate mineral, wherein said poorly crystalline calcium phosphate mineral, wherein said poorly crystalline calcium phosphate mineral <u>product</u> includes atoms of said radio-opaque element incorporated into said mineral <u>product</u>.
- 26. (**Currently Amended**) A packaged calcium phosphate cement, said packaged cement comprising:

a tubular element separated into a first compartment and at least one additional compartment by a removable barrier;

- (i) dry reactants comprising a source of calcium and phosphate present in said first compartment;
- (ii) a setting fluid or components thereof present in said at least one additional compartment; and

- (iii) a water-soluble contrast agent comprising a radio-opaque element other than calcium that is incorporated into a calcium phosphate <u>mineral</u> product comprising poorly crystalline calcium phosphate mineral, wherein said poorly-crystalline calcium phosphate mineral <u>product</u> includes atoms of said radio-opaque element incorporated into said mineral <u>product</u>, wherein said calcium phosphate <u>mineral</u> product is produced upon combination of said dry reactants and setting fluid, wherein said water-soluble contrast agent is present in either said first compartment, said at least one additional compartment or in a second additional compartment.
- 27. (Original) The packaged calcium phosphate cement according to Claim 26, wherein said removable barrier is a clip.
- 28. (Original) The packaged calcium phosphate cement according to Claim 26, wherein said removable barrier is a frangible barrier.
- 29. (Original) The method according to claim 26, wherein said setting fluid is a solution of a soluble silicate.
- 30. (Previously Presented) The method according to Claim 1, wherein said contrast agent is present in an amount ranging from about 10 to abut 35% by weight.